



August 2011

**DEPARTMENT OF EDUCATION**  
2010–2011 School Year Reports

Dear School Board Members and School Personnel:

This 2010–2011 MEA Summary Report contains the results of student achievement in science at grades 5 and 8, as well as disaggregations by student and school characteristics. This report, together with MEA individual student and item analysis reports, provides support for use in program evaluation and planning.

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State science accountability standards of Maine's *Learning Results*. The *Learning Results* contain goals for what all students should know and be able to do at certain times in their school careers and include the accountability standards that are assessed for each grade. The MEA science test is administered to students in grades 5 and 8 to meet state assessment requirements and the federal requirements of the *No Child Left Behind Act*.

MEA results reflect scores based on the common science test questions that are taken by the approximately 14,000 students in each grade level. Students' scores are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. More information about the MEA is available at [www.maine.gov/education/mea/index.htm](http://www.maine.gov/education/mea/index.htm).

Thank you for your continuing commitment to improve the quality and effectiveness of the instructional opportunities in your schools. These assuredly will help all students achieve the high standards of the *Learning Results* as demonstrated on classroom, district, and state assessments.

Sincerely,

Stephen L. Bowen  
Commissioner of Education



# Grade 5 Science State Report

Test Date: May 2011

## Contents of the Report

The report is divided into three main sections including a section describing the students tested and a separate section for the content area results.

<i>Topic</i>	<i>Page</i>
Grade Level Summary .....	2
Science Results .....	3
Disaggregated Science Results .....	4



# May 2011 - Grade 5 MEA Science Test

## Grade Level Summary Report

State: Maine

Schools and SAUs administered the MEA Science tests to every enrolled student with the following exceptions: students who participated in the alternate assessment for the 2010–11 school year, students for whom a special consideration was granted through the state Department of

Education, and other students for reasons not approved. On this page, and throughout this report, results are only reported for groups of students that are larger than nine (9).

PARTICIPATION SUMMARY	Number			Percentage		
	School	SAU	State	School	SAU	State
Students enrolled			13,841			100
<b>Students tested</b> With an approved accommodation  Current LEP Students With an approved accommodation  IEP Students With an approved accommodation  <b>Students not tested in MEA</b> State Approved Alternate Assessment Special Consideration Other	Science			Science		
			13,499			98
			2,533			19
			388			3
			172			44
			2,222			16
			1,788			80
			342			2
			265			77
			245			92
			20			8
			77			23

## PERFORMANCE SUMMARY

State																								
Enrolled	Not Tested Approved	Not Tested Other	Tested	Level 4		Level 3		Level 2		Level 1		Mean Scaled Score	Tested	Level 4	Level 3	Level 2	Level 1	Mean Scaled Score	Tested	Level 4	Level 3	Level 2	Level 1	Mean Scaled Score
N	N	N	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
13,841	265	77	13,499	1,041	8	7,678	57	3,697	27	1,083	8	546												

Level 4 = Proficient with Distinction; Level 3 = Proficient; Level 2 = Partially Proficient; Level 1 = Substantially Below Proficient

Note: Throughout this report, percentages may not total 100 since each percentage is rounded to the nearest whole number.



# May 2011 - Grade 5 MEA

## Science Results

State: Maine

### Proficient with Distinction (Level 4)

The student's work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information, analyze and solve difficult problems, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (Scaled Score 562–580)

### Proficient (Level 3)

The student's work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve routine problems and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (Scaled Score 542–560)

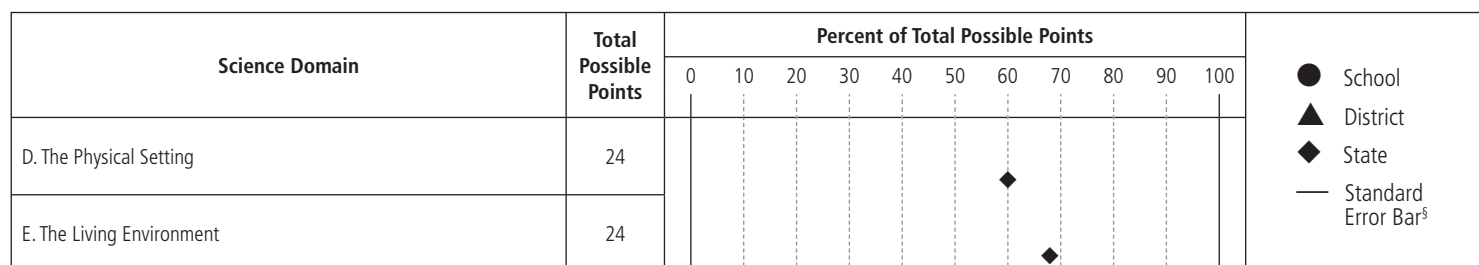
### Partially Proficient (Level 2)

The student's work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (Scaled Score 530–540)

### Substantially Below Proficient (Level 1)

The student's work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems. Explanations are illogical, incomplete, or missing. There are many inaccuracies. (Scaled Score 500–528)

	Enrolled	Not Tested Approved	Not Tested Other	Tested	Level 4		Level 3		Level 2		Level 1		Mean Scaled Score
	N	N	N	N	N	%	N	%	N	%	N	%	
<b>SCHOOL</b> 2008-09 2009-10 <b>2010-11</b> Cumulative Total**													
<b>SAU</b> 2008-09 2009-10 <b>2010-11</b> Cumulative Total**													
<b>STATE</b> 2008-09 2009-10 <b>2010-11</b> Cumulative Total**	14, 212 13, 898 <b>13,841</b> 41, 951	* 207 <b>265</b> **	* 59 <b>77</b> **	13, 995 13, 632 <b>13,499</b> 41, 126	626 1, 137 <b>1,041</b> 2, 804	4 8 <b>8</b> 7	7, 187 7, 563 <b>7,678</b> 22, 428	51 55 <b>57</b> 55	4, 364 3, 823 <b>3,697</b> 11, 884	31 28 <b>27</b> 29	1, 818 1, 109 <b>1,083</b> 4, 010	13 8 <b>8</b> 10	543 545 <b>546</b> 545



The MEA assesses students' science knowledge based on questions that measure the science accountability content strands highlighted in Maine's 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: <http://www.maine.gov/education/lres/pei/index.html>.

\* Data not previously calculated.

\*\* Percentages are calculated by dividing the cumulative total of students in the achievement level by the cumulative total of the number of students tested, when three years of data are available.

<sup>§</sup>The standard error bar indicates how much the percent of points earned could vary if the students were examined multiple times with the same test.



May 2011 - Grade 5 MEA

# Disaggregated Science Results

State: Maine

REPORTING CATEGORIES	State																		
	Enrolled	Not Tested Approved	Not Tested Other	Tested	Level 4		Level 3		Level 2		Level 1		Mean Scaled Score	Tested	Level 4	Level 3	Level 2	Level 1	Mean Scaled Score
	N	N	N	N	N	%	N	%	N	%	N	%		N	%	%	%	%	
<b>All Students</b>	<b>13,841</b>	<b>265</b>	<b>77</b>	<b>13,499</b>	<b>1,041</b>	<b>8</b>	<b>7,678</b>	<b>57</b>	<b>3,697</b>	<b>27</b>	<b>1,083</b>	<b>8</b>	<b>546</b>						
<b>Gender</b>																			
Male	7, 135	189	47	6, 899	556	8	3, 936	57	1, 857	27	550	8	547						
Female	6, 705	76	30	6, 599	485	7	3, 742	57	1, 839	28	533	8	546						
Not Reported	1	0	0	1															
<b>Race/Ethnicity</b>																			
Hispanic or Latino	120	1	2	117	7	6	60	51	38	32	12	10	545						
Not Hispanic or Latino																			
American Indian or Alaskan Native	175	4	4	167	17	10	96	57	39	23	15	9	547						
Asian	420	10	7	403	6	1	120	30	147	36	130	32	535						
Black or African American	182	5	3	174	3	2	84	48	60	34	27	16	542						
Native Hawaiian or Pacific Islander	19	1	0	18	3	17	10	56	4	22	1	6	548						
White	12, 799	243	61	12, 495	995	8	7, 246	58	3, 368	27	886	7	547						
Two or more races	125	1	0	124	10	8	62	50	40	32	12	10	546						
<b>LEP Status</b>																			
Currently receiving LEP services	405	7	10	388	5	1	103	27	139	36	141	36	534						
Former LEP student - monitoring year 1	38	1	0	37	5	14	29	78	3	8	0	0	553						
Former LEP student - monitoring year 2	17	0	0	17	2	12	14	82	1	6	0	0	555						
All Other Students	13, 381	257	67	13, 057	1, 029	8	7, 532	58	3, 554	27	942	7	547						
<b>IEP</b>																			
Students with an IEP	2, 511	257	32	2, 222	37	2	719	32	941	42	525	24	538						
All Other Students	11, 330	8	45	11, 277	1, 004	9	6, 959	62	2, 756	24	558	5	548						
<b>SES</b>																			
Economically Disadvantaged Students	6, 421	182	39	6, 200	217	4	3, 086	50	2, 130	34	767	12	543						
All Other Students	7, 420	83	38	7, 299	824	11	4, 592	63	1, 567	21	316	4	550						
<b>Migrant</b>																			
Migrant Students	3	0	0	3															
All Other Students	13, 838	265	77	13, 496	1, 041	8	7, 677	57	3, 695	27	1, 083	8	546						
<b>Title I</b>																			
Students Receiving Title I Services	2, 317	25	16	2, 276	30	1	929	41	964	42	353	16	540						
All Other Students	11, 524	240	61	11, 223	1, 011	9	6, 749	60	2, 733	24	730	7	548						
<b>504 Plan</b>																			
Students with a 504 Plan	337	2	2	333	25	8	190	57	98	29	20	6	546						
All Other Students	13, 504	263	75	13, 166	1, 016	8	7, 488	57	3, 599	27	1, 063	8	546						

Level 4 = Proficient with Distinction; Level 3 = Proficient; Level 2 = Partially Proficient; Level 1 = Substantially Below Proficient

NOTE: Some numbers may have been left blank because fewer than ten (10) students were tested.